

FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

Automatic gas ignition system

FCC ID Number : Q9K-PC20-01

Trade Name : N/A

Model Number : HC-SR-001

Agency Series : N/A

Report Number : 03E1061-D

Date : July 3, 2003

Prepared for :

GRAND HALL ENTERPRISE CO., LTD.

**8Fl., NO. 298, Rueiguang Rd., Neihu,
Taipei, Taiwan 114, R.O.C.**

Prepared by :

C&C LABORATORY CO., LTD.

**No. 165, Chung Sheng Road, Hsin Tien City,
Taipei, Taiwan, R. O. C.**

TEL: (02)2217-0894

FAX: (02)2217-1029



Lab. Code: 200617-0



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TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	3
2. PRODUCT DESCRIPTION.....	4
3. TEST FACILITY	4
4. MEASUREMENT STANDARDS	4
5. TEST METHODOLOGY	4
6. MEASUREMENT EQUIPMENT USED	5
7. POWERLINE RFI LIMIT.....	5
8. RADIATED EMISSION LIMITS	6
9. SYSTEM TEST CONFIGURATION	6
10. TEST PROCEDURE	8
11. EQUIPMENT MODIFICATIONS.....	9
12. TEST RESULT	10
12.1. MAXIMUM MODULATION PERCENTAGE(M%).....	10
12.2. THE EMISSIONS BANDWIDTH	10
APPENDIX 1 PHOTOGRAPHS OF EUT	11
APPENDIX 2 TEST DATA	15

1. VERIFICATION OF COMPLIANCE

COMPANY NAME : GRAND HALL ENTERPRISE CO., LTD.
8Fl., NO. 298, Rueiguang Rd., Neihu,
Taipei, Taiwan 114, R.O.C.

CONTACT PERSON : David Kim / R&D Manager

TELEPHONE NO. : 866-2-2659-1119

EUT DESCRIPTION : Automatic gas ignition system

MODEL NAME/NUMBER : HC-SR-001

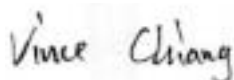
FCC ID : Q9K-PC20-01

DATE TESTED : June 11, 2003

REPORT NUMBER : 03E1061-D

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	340 MHz Automatic gas ignition system
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15

The above equipment was tested by C&C Laboratory Co., Ltd. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Engineering Services, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by C&C Laboratory Co., Ltd. will constitute fraud and shall nullify the document.



Vince Chiang / Supervisor
C&C Laboratory Co., Ltd.

2. PRODUCT DESCRIPTION

Fundamental Frequency	340 MHz
Power Source	12V Battery
Transmitting Time	Periodic $\leq$ 5 seconds
Associated Receiver	Model: RC-SR-001 (DoC)

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 165 & No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/1992.

5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

6. MEASUREMENT EQUIPMENT USED

Manufacturer	Model Number	Description	Cal Due Date
R&S	ESVS30	MEASURE RECEIVER	09/13/03
ADVANTEST	R3132	SPECTRUM ANALYZER	09/11/03
SCHAFFNER	CBL 6112B	ANTENNA	11/11/03
BELDEN	9913	CABLE	10/13/03
SCHAFFNER	CPA9231A	PRE-AMPLIFIER	10/30/03

7. POWERLINE RFI LIMIT

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 KHz TO 30 MHz	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NO REQUIRED.

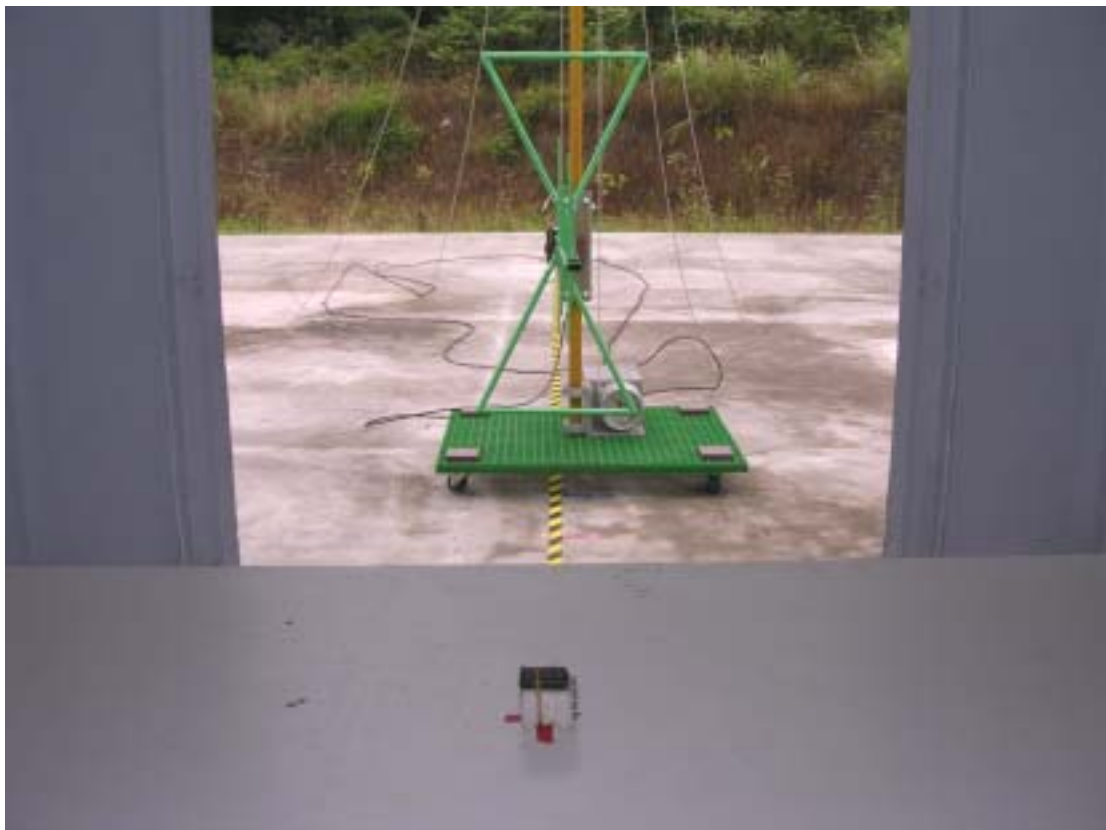
8. RADIATED EMISSION LIMITS

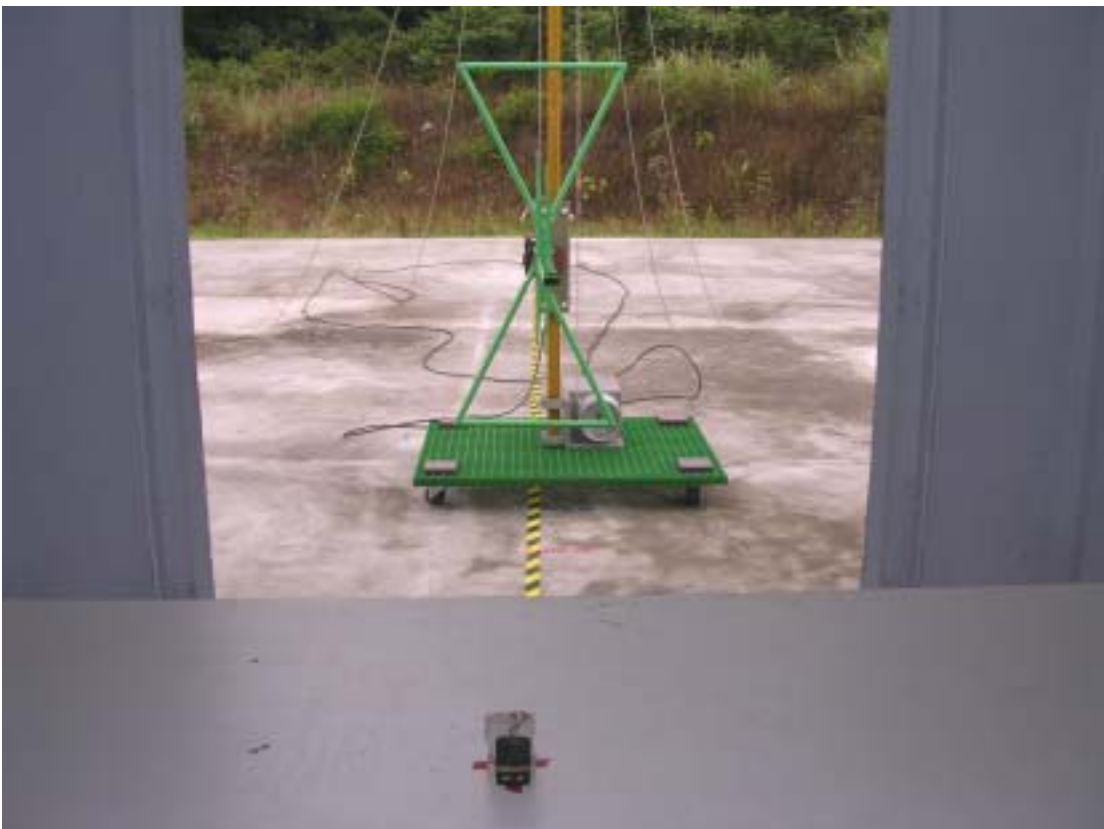
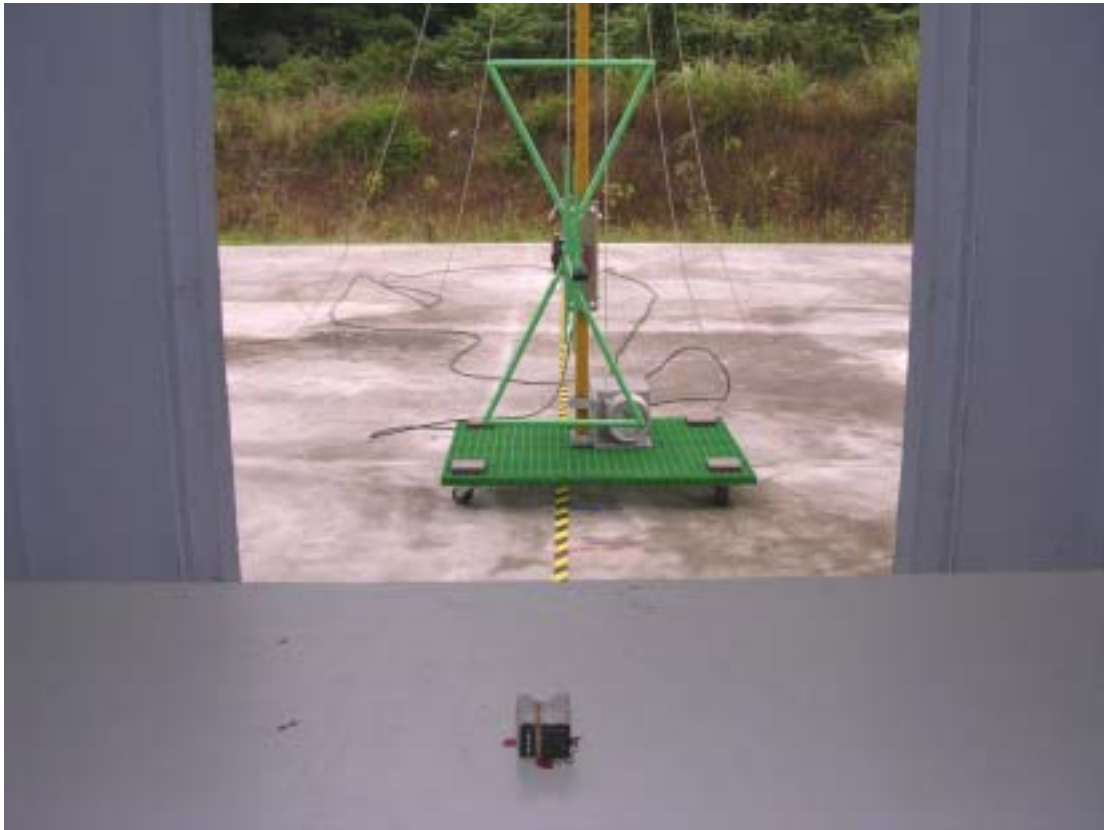
GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz.	SECTION 15.231

9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X.Y, and Z axis. To activate continuous transmission, place a small plastic block between rubber band and EUT push button.

Radiated Open Site Test Set-up (Transmitter Mode)





10. TEST PROCEDURE

Radiated Emissions, 15.231(4)(b)

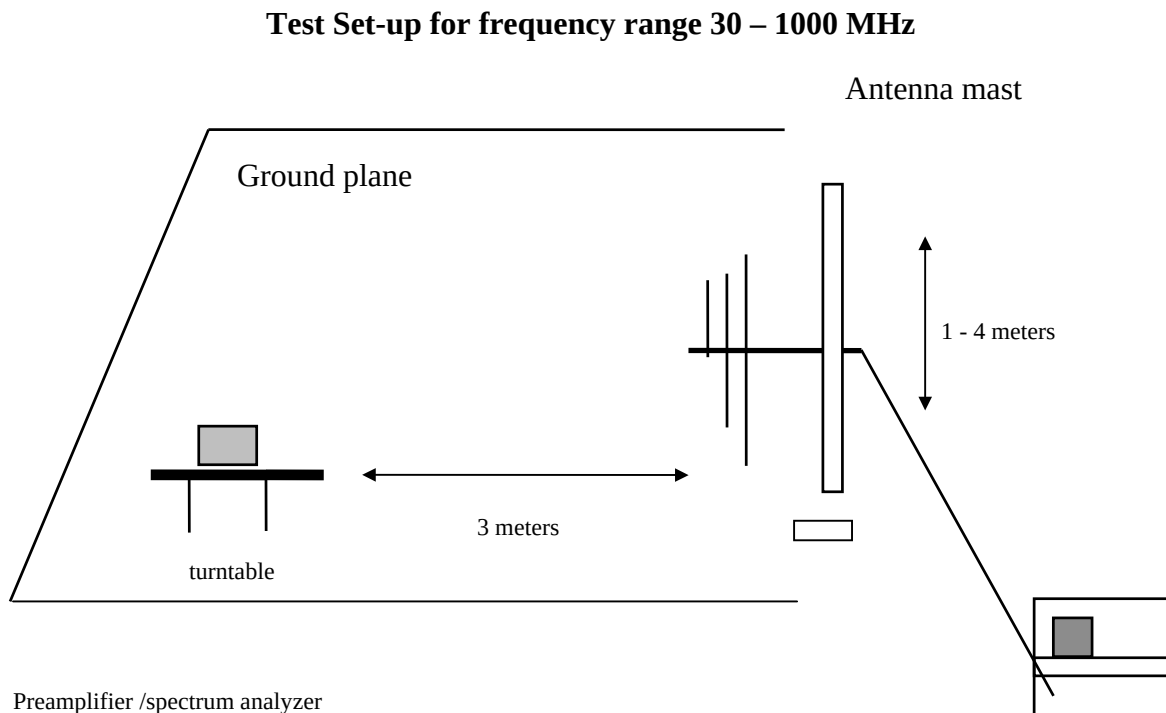


Fig. 1

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

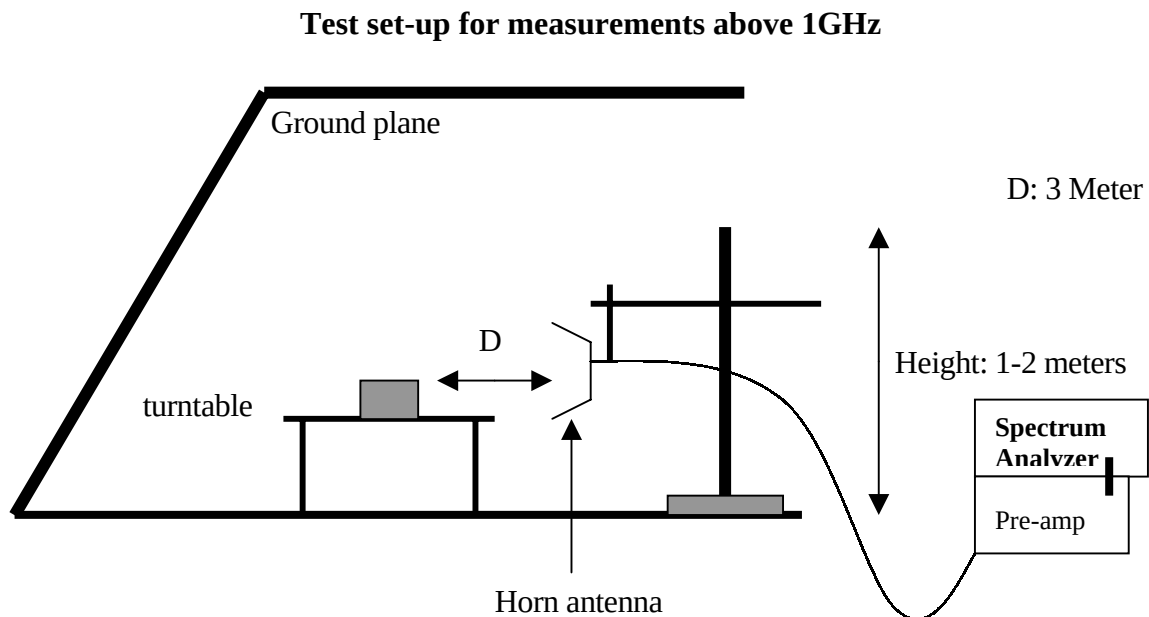


Fig. 2

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

11. Equipment Modifications

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

NONE

12. TEST RESULT

Powerline RFI Class B	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	
BATTERY POWER	X	SECTION 15.231 (b)	X
		SECTION 15.231 (e)	

12.1 Maximum Modulation Percentage (M%)

CALCULATION:

Average Reading = Peak Reading (dBuV/m)+ 20log (Duty Cycle)

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT.
We measured:

WHERE 1 Period = 65.70 mS
Long pulse = 1.53 mS
Short pulse = 0.50 mS
No of Long pulse = 13
No of Short pulse = 13

Duty Cycle = (N1L1+N2L2+...+Nn-1Ln-1+NnLn)/65.70 or T
Duty Cycle = [(13x1.53)+(13x0.50)]/65.70 =0.4017 =40.17 % or -7.9226dB

12.2 The Emissions Bandwidth

The bandwidth of the emissions were investigated per 15.231(c)

Center Frequency	Measured	Limits
340 MHz	610.0 kHz < (refer to plot)	340MHzX0.25%=850.0 kHz

Wed 2003 Jun 11 11:19

REF 102.0 dB μ V

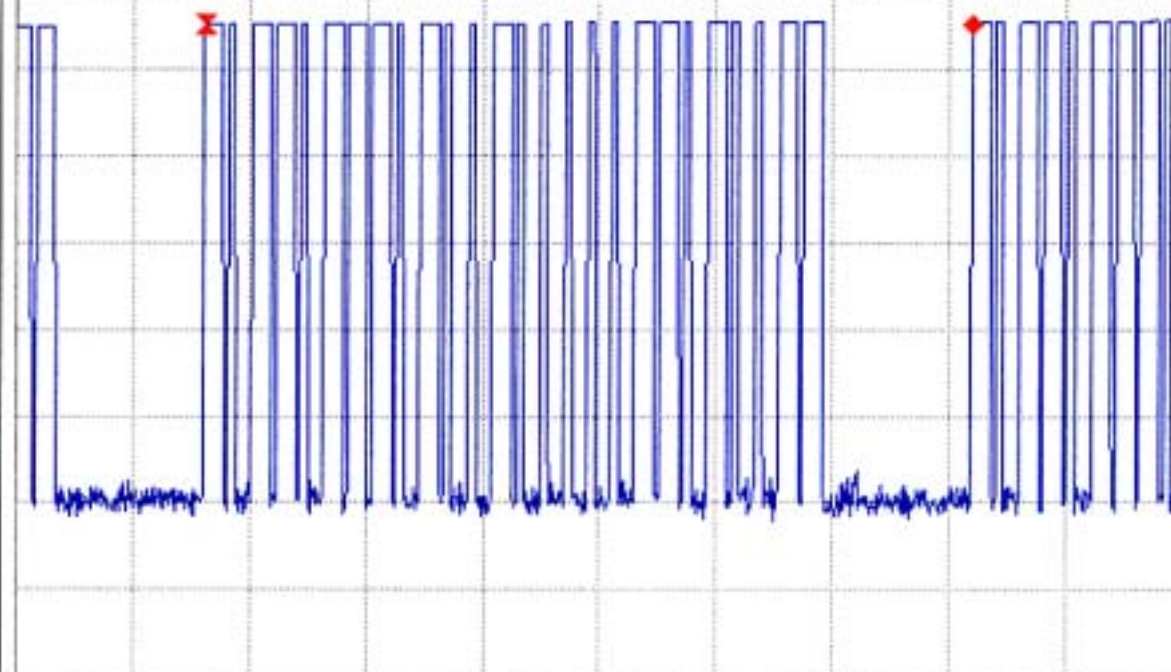
MK Δ 65.70 ms

10dB/

A_Write Posi B_Blank Posi

0.13 dB

DELTA MKR
65.70 ms



CENTER 342.770000 MHz

SPAN 0.000 kHz

*RBW 100 kHz *VBW 300 kHz *SWP 100 ms *ATT 5 dB

Wed 2003 Jun 11 11:43

REF 102.0 dB μ V

MK Δ 1.530 ms

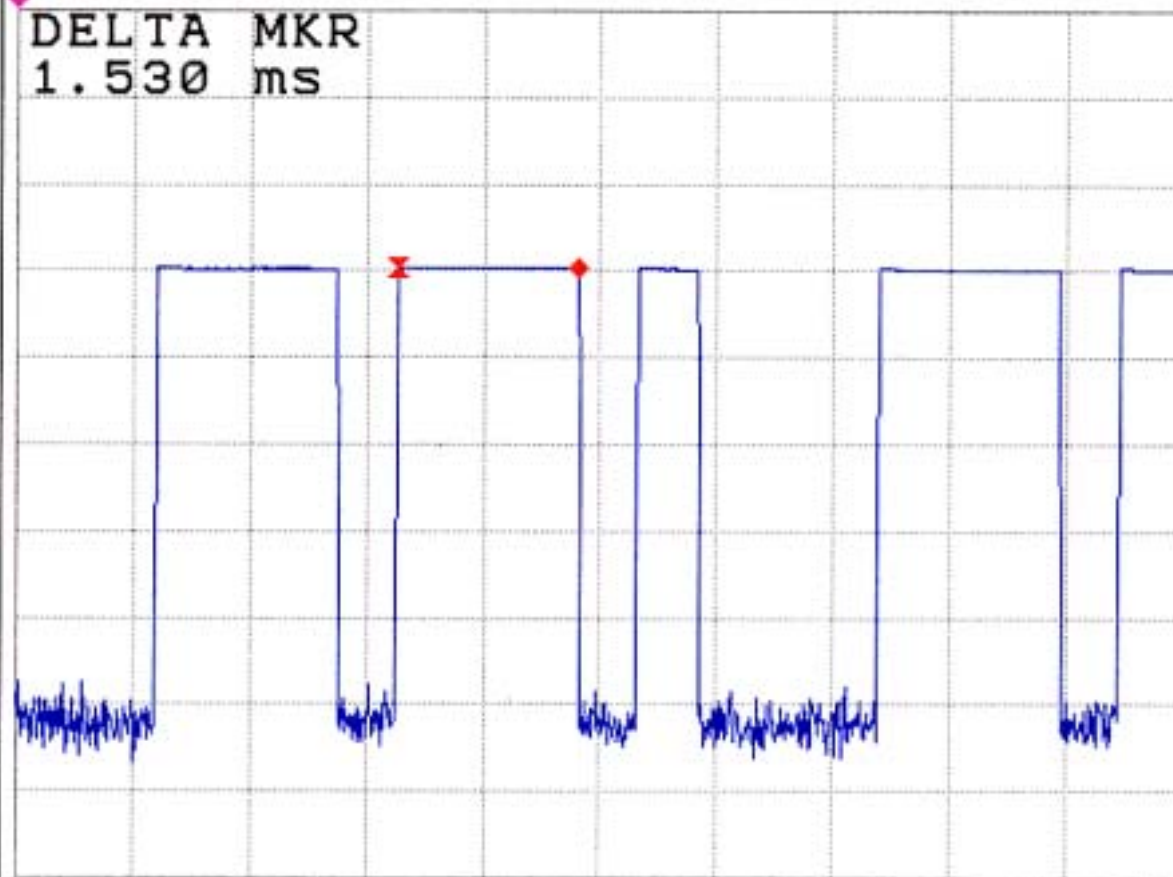
10dB/

A_Write Posi

B_Blank Posi

-0.05 dB

DELTA MKR
1.530 ms



CENTER 342.770000 MHz

SPAN 0.000 kHz

*RBW 100 kHz

*VBW 300 kHz

*SWP 10 ms

*ATT 5 dB

Wed 2003 Jun 11 11:46

REF 102.0 dB μ V

MK Δ 500.0 μ s

10dB/

A_Write Posi

B_Blank Posi

0.13 dB

DELTA MKR
500.0 μ s



CENTER 342.770000 MHz

SPAN 0.000 kHz

*RBW 100 kHz

*VBW 300 kHz

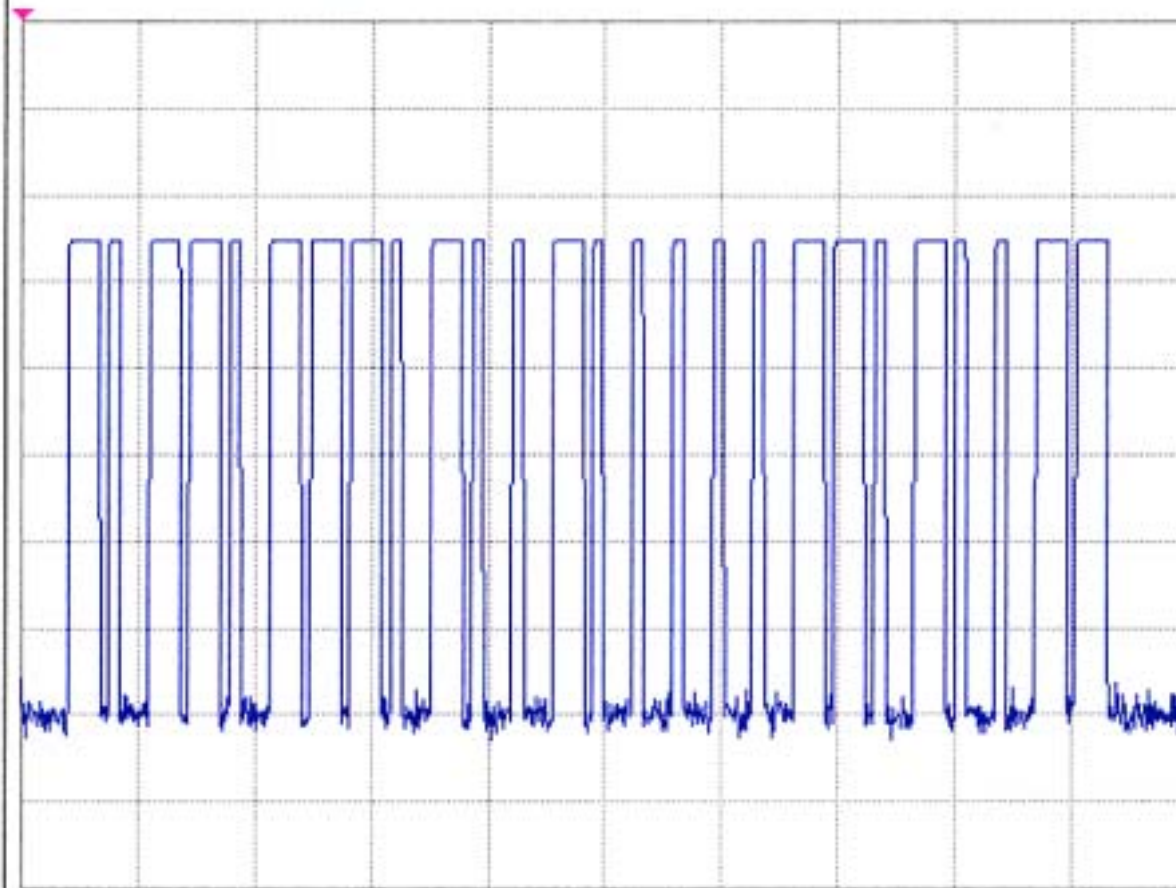
*SWP 10 ms

*ATT 5 dB

Wed 2003 Jun 11 11:37

REF 102.0 dB μ V

10dB/ A_Write Posi B_Blank Posi



CENTER 342.770000 MHz

SPAN 0.000 kHz

*RBW 100 kHz *VBW 300 kHz *SWP 60 ms *ATT 5 dB

20.0 dB DOWN

Wed 2003 Jun 11 11:15

REF 102.0 dB μ V

DL 62.8 dB μ V

MK Δ 610 kHz

10dB/

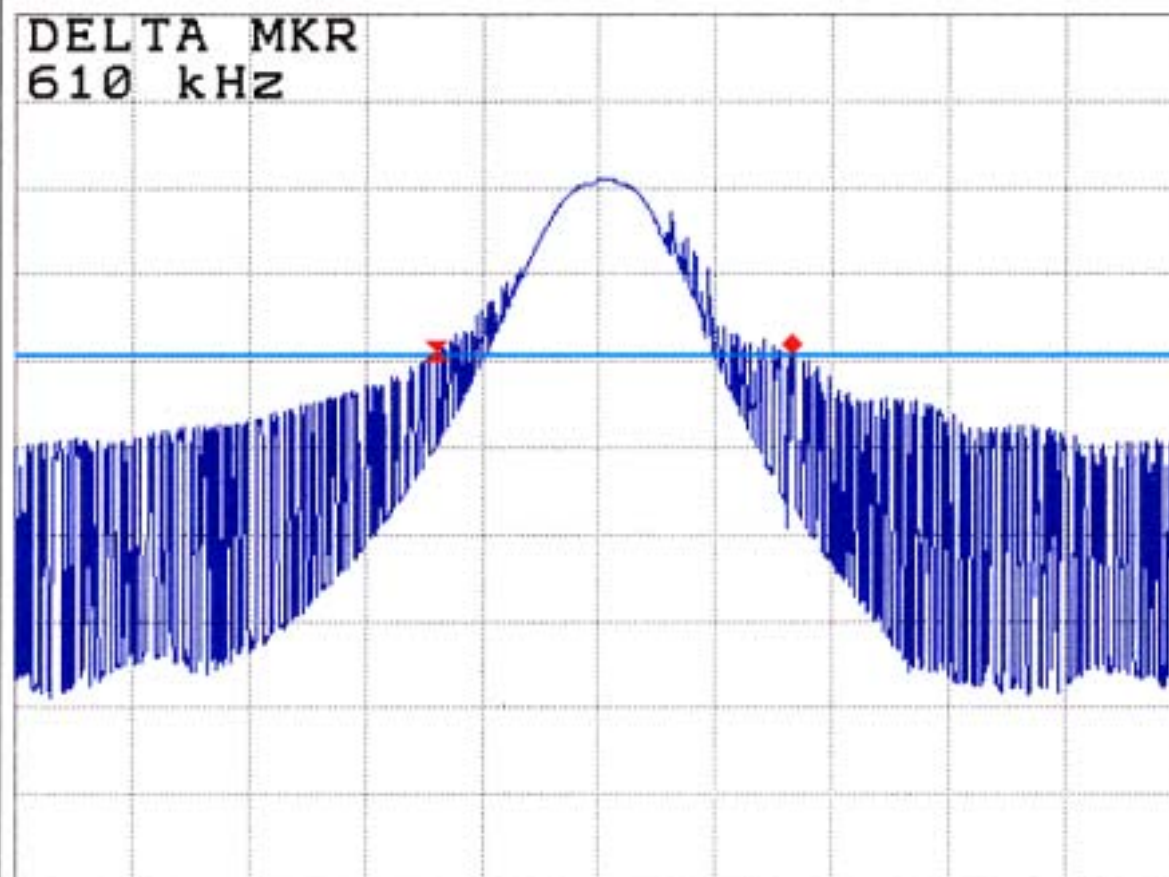
A_View

Posi B_Blank

Posi

0.84 dB

DELTA MKR
610 kHz



CENTER 342.770 MHz

SPAN 2.000 MHz

*RBW 100 kHz

*VBW 300 kHz

*SWP 20 ns

*ATT 5 dB

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FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 165, Chung Sheng Road,
Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1029

Project #: 03E1061
Report #: 03E1061-D
Date& Time: 2003/06/11
Test Engr: JIMMY CHEN

Company: GRAND HALL ENTERPRISE CO., LTD.
EUT Description: HC-SR-001(340MHz / Automatic gas ignition system)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

K Site

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 40.17 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = -7.9226$$

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC B	(dB)	(H/V)	(Deg)	(Meter)
X	Button #1:											
	342.50	67.76	59.84	25.44	2.65	29.62	58.31	77.13	-18.82	3mV	90	1.10
Y	684.96	44.83	36.91	30.81	4.54	29.25	43.01	57.13	-14.12	3mV	180	1.20
	342.43	77.16	69.24	25.44	2.65	29.62	67.71	77.13	-9.42	3mV	270	1.30
Z	684.85	50.52	42.60	30.81	4.54	29.25	48.70	57.13	-8.43	3mV	270	1.30
	342.43	78.07	70.15	25.44	2.65	29.62	68.62	77.13	-8.51	3mV	90	1.00
	684.85	53.31	45.39	30.81	4.54	29.25	51.49	57.13	-5.64	3mV	180	1.50
X	342.43	80.21	72.29	25.44	2.65	29.62	70.76	77.13	-6.37	3mH	180	1.00
	684.84	48.01	40.09	30.81	4.54	29.25	46.19	57.13	-10.94	3mH	90	1.20
Y	342.41	79.05	71.13	25.44	2.65	29.62	69.60	77.13	-7.53	3mH	270	1.00
	684.82	54.71	46.79	30.81	4.54	29.25	52.89	57.13	-4.24	3mH	180	1.10
Z	342.42	79.04	71.12	25.44	2.65	29.62	69.59	77.13	-7.54	3mH	360	1.10
	684.84	55.27	47.35	30.81	4.54	29.25	53.45	57.13	-3.68	3mH	270	1.40

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 7.9226dB

Total Data #12

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 165, Chung Sheng Road,
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PHONE: 02-2217-0894 FAX: 02-2217-1029

Project #: 03E1061
Report #: 03E1061-D
Date& Time: 2003/06/11
Test Engr: JIMMY CHEN

Company: GRAND HALL ENTERPRISE CO., LTD.
EUT Description: HC-SR-001(340MHz / Automatic gas ignition system)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

K Site

M% = ((t1+t2+t3+...)/T) * 100% = **40.17 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-7.9226**

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC B	(dB)	(H/V)	(Deg)	(Meter)
X	Button #2:											
	342.47	70.65	62.73	25.44	2.65	29.62	61.20	77.13	-15.93	3mV	90	1.00
Y	684.97	44.94	37.02	30.81	4.54	29.25	43.12	57.13	-14.01	3mV	180	1.20
	342.32	78.63	70.71	25.44	2.65	29.62	69.18	77.13	-7.95	3mV	90	1.30
Z	684.84	50.32	42.40	30.81	4.54	29.25	48.50	57.13	-8.63	3mV	0	1.30
	342.42	76.46	68.54	25.44	2.65	29.62	67.01	77.13	-10.12	3mV	180	1.10
	684.85	51.16	43.24	30.81	4.54	29.25	49.34	57.13	-7.79	3mV	0	1.70
X	342.45	80.06	72.14	25.44	2.65	29.62	70.61	77.13	-6.52	3mH	90	1.00
	684.91	50.16	42.24	30.81	4.54	29.25	48.34	57.13	-8.79	3mH	90	1.50
Y	342.45	75.73	67.81	25.44	2.65	29.62	66.28	77.13	-10.85	3mH	180	1.00
	684.89	51.00	43.08	30.81	4.54	29.25	49.18	57.13	-7.95	3mH	180	1.40
Z	342.43	78.20	70.28	25.44	2.65	29.62	68.75	77.13	-8.38	3mH	270	1.10
	684.86	51.51	43.59	30.81	4.54	29.25	49.69	57.13	-7.44	3mH	270	1.30

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 7.9226dB

Total Data #12

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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Project #: 03E1061
Report #: 03E1061-D
Date& Time: 2003/06/11
Test Engr: JIMMY CHEN

Company: GRAND HALL ENTERPRISE CO., LTD.
EUT Description: HC-SR-001(340MHz / Automatic gas ignition system)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

K Site

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 40.17 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = -7.9226$$

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC B	(dB)	(H/V)	(Deg)	(Meter)
X	Button #3:											
	342.97	70.98	63.06	25.44	2.65	29.62	61.53	77.16	-15.63	3mV	0	1.00
	685.87	43.08	35.16	30.81	4.54	29.25	41.26	57.16	-15.90	3mV	90	1.10
Y	342.92	75.95	68.03	25.44	2.65	29.62	66.50	77.16	-10.66	3mV	270	1.00
	685.81	55.38	47.46	30.81	4.54	29.25	53.56	57.16	-3.60	3mV	0	1.30
	342.92	78.30	70.38	25.44	2.65	29.62	68.85	77.16	-8.31	3mV	90	1.00
Z	685.79	49.12	41.20	30.81	4.54	29.25	47.30	57.16	-9.86	3mV	180	1.60
X	342.95	81.23	73.31	25.44	2.65	29.62	71.78	77.16	-5.38	3mH	90	1.00
	685.90	48.88	40.96	30.81	4.54	29.25	47.06	57.16	-10.10	3mH	180	1.40
	342.94	79.99	72.07	25.44	2.65	29.62	70.54	77.16	-6.62	3mH	0	1.00
Y	685.88	51.12	43.20	30.81	4.54	29.25	49.30	57.16	-7.86	3mH	90	1.30
	342.94	80.83	72.91	25.44	2.65	29.62	71.38	77.16	-5.78	3mH	270	1.10
	685.86	52.82	44.90	30.81	4.54	29.25	51.00	57.16	-6.16	3mH	180	1.20

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 7.9226dB

Total Data #12

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

K Site

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 40.17 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = -7.9226$$

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC B	(dB)	(H/V)	(Deg)	(Meter)
X	Button #4:											
	343.12	67.23	59.31	25.44	2.65	29.62	57.78	77.13	-19.35	3mV	270	1.00
Y	686.21	42.73	34.81	30.81	4.54	29.25	40.91	57.13	-16.22	3mV	90	1.30
	343.06	77.28	69.36	25.44	2.65	29.62	67.83	77.13	-9.30	3mV	0	1.00
Z	686.12	49.13	41.21	30.81	4.54	29.25	47.31	57.13	-9.82	3mV	0	1.30
	343.08	77.73	69.81	25.44	2.65	29.62	68.28	77.13	-8.85	3mV	90	1.00
	686.16	49.30	41.38	30.81	4.54	29.25	47.48	57.13	-9.65	3mV	180	1.50
X	343.12	80.94	73.02	25.44	2.65	29.62	71.49	77.13	-5.64	3mH	180	1.00
	686.23	50.98	43.06	30.81	4.54	29.25	49.16	57.13	-7.97	3mH	180	1.60
Y	343.11	77.63	69.71	25.44	2.65	29.62	68.18	77.13	-8.95	3mH	0	1.00
	686.19	49.91	41.99	30.81	4.54	29.25	48.09	57.13	-9.04	3mH	90	1.30
Z	343.08	78.54	70.62	25.44	2.65	29.62	69.09	77.13	-8.04	3mH	0	1.10
	686.15	50.95	43.03	30.81	4.54	29.25	49.13	57.13	-8.00	3mH	270	1.20

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 7.9226dB

Total Data #12

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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PHONE: 02-2217-0894 FAX: 02-2217-1029

Project #: 03E1061

Report #: 03E1061-D

Date& Time: 2003/06/11

Test Engr: JIMMY CHEN

Company:
EUT Description:
Test Configuration :
Type of Test:
Mode of Operation:

GRAND HALL ENTERPRISE CO., LTD.
HC-SR-001(340MHz / Automatic gas ignition system)
EUT ONLY
FCC 15.231(b)/FCC 15.209
NORMAL MODE

 K-Site

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
1029	49.84	41.92	24.58	4.19	31.47	39.22	54.00	-14.78	3mV	90	1.1	A
1371	62.88	54.96	25.35	4.90	32.18	53.03	54.00	-0.97	3mV	90	1.0	A
1714	53.14	45.22	26.36	5.55	32.73	44.40	57.13	-12.73	3mV	180	1.5	A
2057	56.50	48.58	27.46	6.13	33.13	49.04	57.13	-8.09	3mV	270	1.2	A
2400	52.70	44.78	28.36	6.50	33.20	46.44	57.13	-10.69	3mV	90	1.0	A
2743	44.25	36.33	29.29	6.98	33.12	39.48	54.00	-14.52	3mV	360	1.3	A
3086	43.46	35.54	30.21	7.53	33.02	40.26	57.13	-16.87	3mV	180	1.0	A
3429	46.22	38.30	31.03	8.11	32.97	44.47	57.13	-12.66	3mV	270	1.1	A
1029	50.58	42.66	24.58	4.19	31.47	39.96	54.00	-14.04	3mH	90	1.1	A
1371	61.87	53.95	25.35	4.90	32.18	52.02	54.00	-1.98	3mH	180	1.0	A
1714	51.43	43.51	26.36	5.55	32.73	42.69	57.13	-14.44	3mH	270	1.2	A
2057	61.48	53.56	27.46	6.13	33.13	54.02	57.13	-3.11	3mH	180	1.3	A
2400	55.49	47.57	28.36	6.50	33.20	49.23	57.13	-7.90	3mH	360	1.0	A
2743	54.94	47.02	29.29	6.98	33.12	50.17	54.00	-3.83	3mH	90	1.5	A
3086	46.26	38.34	30.21	7.53	33.02	43.06	57.13	-14.07	3mH	180	1.5	A
3428	47.42	39.50	31.03	8.11	32.97	45.67	57.13	-11.46	3mH	90	1.0	A

* No other emission were found within 20dB under the limits upto 4.5 GHz.

Total data #16
V.2d

P(Peak): RBW=VBW=1MHz
A(Average): Pk Reading -7.9226dB